~ USSR

IGNATOV, V. A., USER Authors Certificate No 327509

to the outputs of the main and auxiliary phase shifters respectively, and the outputs are connected to the input of the register.

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- l_il; -

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

USSR

UDC 621.313.333.001.5

IGNATOV V. A., Candidate of Technical Sciences, POLYAK, L. M., Engineer, MORDVINOV, V. A., Engineer

"Study of Asynchronous Hotors with Printed Coaxial Windings"

Moscow, Elektrotekhnika, No 8, 1971, pp 13-20

Abstract: A study was made of asynchronous motors with printed windings forming several coaxial stacks working on a common shaft. The theory of a generalized electric motor is used to derive the basic equations of the voltages and total moment [B. Actins, Obshchaya Teoriya Elektricheskikh Mashin, Gosenergoizdat Press, 1960]. It is theory is convenient in that use of matrices makes it possible to drive the voltage and moment equations both for each unit motor for each pair of windings and the motor as a whole. The equations are derived for the case where the winding material of the rotor and the configuration of the winding conductors are identical for each of the k pairs of windings. Corresponding coefficients must be introduced if the specific resistance or conductor geometry of any part of the rotor windings is changed.

1/1

FRCCESSING DATE--03JUL70 UNCLASSIFIED TITLE--- FORMATION OF AMIDES OF 2.BENZOTHLAZOLESULFENIO ACID FROM N. CHECKAPINES AND 2. MERCAPTIBENZOTHIAZOLE -L-ALTHUS--ICALTON, V.A., FI-CGCV, F.A. CCUNTRY OF INFO--USSR SCURCE-KEIN. GETERCTSIKE. SCEDIN. 1970, (1), E9-92 DATE PUBLISHED----70 SUBJECT AREAS--CHEMISTRY TCPIC TAGS--THIAZOLE, BENZENE DERÍVATIVE, AMICE, MERCAPTAN, CHLORAMIDE, CXICATION CENTECL MARKING--NO RESTRICTIONS DCCUMENT CLASS--UNCLASSIFIED STEP NC--UR/0409/70/000/001/0089/0092 PRGXY FEEL/FRANE--1980/1719 CIRC MICESSION NE-- MFOC49797 UNCLASSIFIED

Acc. Nr. AP0049797 Abstracting Service: CHEMICAL ABST. 5 70

Ref. Code: UR0409

100584y Formation of amides of 2-benzothiazolesulfenic acid from N-chloramines and 2-mercaptobenzothiazole. Ignatov, V. from N-chloramines and 2-mercaptobenzothiazole. Ignatov, V. A.; Pirogov, P. A. (Nauch.-Issled Inst. Khimikatov-Dobavok Polim. Mater., Tombov, USSR). Khim. Gelerolsikl. Soedin. 1970, (1), 89-92 (Russ). ArSNa (Ar = 2-benzothiazoly!), RRI-NC! (R = alky!, R¹ = alky! or H), and RR¹NH were reacted in H₂O, EtOH, or C₈H₆ at -3 to 65° 20-30 min, and the % yields of ArSNRR¹ and ArSSAr detd. The results show that the oxidn. of ArSH to ArSSAr in H₂O and EtOH is effected by HOC!, formed in the reaction RR¹NC! + H₂O = RR¹NH + HOC!.

J. Panchartek 1

REEL/FRAME 19801719

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

Construction

USSR

UDC 624.042.3:519.2

IGNATOV, V. P., Moscow

"Evaluating the Effect of Statistical Inhomogeneities in a Base on Forces in a Frame"

Moscow, Stroitel'naya mekhanika i raschet sooruzheniy, No. 3, 1972, pp 19-22

Abstract: A frame construction resting on a statistically nonhomogeneous Winkler base with the aid of individual or continuous beam foundations is discussed. It is noted that the physicomechanical characteristics of a ground massif in a natural deposit vary even over small areas and that this change has a stochastic character; the soil foundation in this case is considered statistically nonhomogeneous. Due to this nonhomogeneity the forces in the frame will have a spread relative to the average values obtained for a deterministic base. The method of forces in matrix form is used to determine the probability characteristics of the spread of the forces in terms of the correlation theory of random functions. A sample calculation is made showing a frame structure on an elactic base loaded by a force in the middle of the upper cross bar. The width of the foundation beam is 1 m, its rigidity is 6000 tm², and the rigidity of the remaining

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USSR

IGNATOV, V. P., Stroitel'naya mekhanika i raschet sooruzheniy, No. 3, 1972, pp 19-22

rods of the frame are the same and equal to 3660 tm². The mathematical expectation of the bed coefficient is taken as 1500 t/m³ and its dispersion is 90,000 t²/m⁶. Tables are given showing the mathematical expectations of the bending moments M and their beam square deviation $\sigma_{\rm M}$ at reference cross sections of the rods of the frame and at characteristic points of the beam. The results show that under a normal distribution of the bed coefficient the probability of the rise of a support moment greater than M + $\sigma_{\rm M}$ = 0.1038 is equal to 0.1586. For a frame on individual foundations its mean square deviation rises along with a rise in the mathematical expectation of the moment in the lower cross bar, indicating greater sensitivity to inhomogeneities in the foundation.

2/2

- 26 -

Microbiology

USSR

UDC 575.123:576.851

IGNATOV, V. V., SHENDEROV, B. A., PANASENKO, V. I., PIDENKO, A. P., and MAGAGINA, A. N., Saratov State University imeni N. G. Chernyshevskiy,

"Elimination of the Genetic Determinants of Resistance in Staphylococcus aureus Under the Effect of an Intensive Electromagnetic Field"

Moscow, Genetika, Vol 9, No 4, Apr 73, pp 57-61

Abstract: Two strains of Staph. aureus, 33 and 1074, were subjected to the action of an electromagnetic field with a frequency of 2375 megacycles and an intensity of 1516 kw. The strains, which had been isolated from patients, were typical with respect to their microbiological properties. They were polyresistant to penicillin, tetracycline, chloramphenicol, streptomycin, erythromycin, mercuric chloride, and albucide. Under the action of the electromagnetic field, some of the determinants of drug resistance were eliminated. The effect was due to the action of heat produced by the electromagnetic waves. A great number of cultures differing with respect to the determinants of drug resistance that had been eliminated could be segregated. After being stored for 10 mos in 0.8% Hottinger agar at 4°, the majority of segregated cultures retained their new type of drug resistance.

USSR

IGNATOV, V. V., et al., Genetika, Vol 9, No 4, Apr 73, pp 57-61

In some cases, however, there was restoration of some of the lost factors of drug resistance, but not of all of them. The phenomenon described can be used for the study of the extra-chromosomal determinants in microorganisms that are responsible for drug resistance.

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Ignatov, About 1/4 of the superheated steam from the reactor goes to the to... bine, and the remaining 3/4 is directed for intermediate superheating, actor, which it enters into a sceam generator of the mixing type, where superheater the steam from the feedwater results in dry saturated steam that is ted with a compressor into the reactor for new superheating [4, 5]. The intermediate The Loeffler scheme was previously used in steam generators using temperatural, and some of them are in operation to this day in a number of Earthpean countries. Such a steam pomerator was in operation until 1967 in the USBN at the Notice thornal power plant TITS 10-9. The Loeffler who is it also make electric stations is characterized by the fact that the functor is cooled with superheated steam (Fig. 1).

25

The coolants contomarily used in atomic remeters are water unive price sure or bothler water, liquid metals, and gamma. It is possible, however, we use also superhearts steems as a coolant for atomic reactor. Steen-esseld in actors differ from boiling-water reactors with steam superheat in that the no boiling of the coolant in them.

Even in the ecobined system of a boiling reactor (EAR) consistent in the second reactor is in essence steam superheat (SSR) [1 - 3], the second reactor is in essence steam-cooled, but does not constitute in this case an

PIANNING ATOMIC ELECTRIC POWER STATIONS WITH STEAM-COOLED REACTORS

[Article by D. R. Kalafati, doctor technical seignaes, and S. I. Petrov and V. V. Ismator, engineers, Hoscow, <u>lepiocherostika</u>, Aussian, No S. 1977; "pp 88-92]

UDC 521.311.2:621.039(-87)

(). ().

CIA-RDP86-00513R002201110009-5"

with the steam containt obtained at saturation temperature in a mixture type botler (Loeffler scheme); γ

with a surface-time steam generator.

.

with external evaporation in two variants:

As an independent power installation one can use a steam-cooled reacti

independent power installation,

APPROVED FOR RELEASE: 08/09/2001

USSR

UDC: 621.391:519.2

SHAKHGIL'DYAN, V. V., IGNATOV, Yu. F.

"Quasi-Optimum Reception of FM and PM Signals With Non-Gaussian A Priori Statistics"

V sb. Metody pomekhoustoychivogo priyema ChM i FM (Methods of Interference-Free FM and PM Reception--collection of works), Moscow, "Sov. radio", 1970, pp 56-61 (from RZh-Radiotekhnika, No 12, Dec 70, Abstract No 12A84)

Translation: The structure of a quasi-optimum receiver of frequency-modulated and phase-modulated signals is synthesized by methods of the theory of conditional Markov processes. It is assumed that the a priori statistics of the modulation signal are non-Gaussian. Specific definition of the filtration equations leads to systems of automatic frequency control with nonlinear control circuit. Specific examples are given of filtering of a clipped FM signal and a PM signal with non-Gaussian a priori statistics. The results are compared with data for filtration of a signal with Gaussian a priori statistics. In this case the use of a nonlinear control circuit does not give any appreciable advantage with respect to filtration quality. However, a special example is given where the effectiveness of nonlinear filtration over linear filtration is demonstrated. Resumé.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

1/2 021 UNCLASSIFIED PROCESSING DATE--020CT70
TITLE--GUASI OPTIMAL DETECTION OF FM SIGNALS IN NOISE -U-

AUTHOR--IGNATOV, YU.F.

COUNTRY OF INFO--USSR

SOURCE--KIEV, IZVESTIVA VUZOV SSR-RADIOELEKTRONIKA, VOL 13, NO 2, 1970, PP 171-180 DATE PUBLISHED-----70

SUBJECT AREAS-NAVIGATION

TGPIC TAGS--FM RECEIVER, WHITE NOISE, SIGNAL DETECTION, RELIABILITY, REQUENCY CONTROL, GAUSSIAN DISTRIBUTION

CONTROL MAPKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1991/0153

STEP NO--UR/0452/70/013/002/0171/0180

CIRC ACCESSION NU--APOLIO119

UNCLASSIFIED

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PROCESSING DATE--020CT70

CIRC ACCESSION NO--APO110119

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. A QUASI OPTIMAL RECEIVER FOR THE DETECTION OF FM SIGNALS OF VARIABLE FREQUENCY IN WHITE NOISE IS DESIGNED IN THE GAUSSIAN APPROXIMATION. JUSTIFIED IN ITS APPLICATION TO PROBLEMS IN WHICH RELIABLE SYSTEM OPERATION IS REQUIRED, THE APPROXIMATION SIMPLIFIES INVESTIGATION OF THE QUALITY OF DETECTION. THIS PAPER OFFERS A SOLUTION TO THE PROBLEM OF QUASI OPTIMAL FM DETECTION INVOLVING AN ATYPICAL PHASE AFC SYSTEM, AND THEREBY MAKES SPECIFIC THE RESULTS

UNCLASSIFIED

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RECEIVER ARRANGEMENT IS GIVEN, AND THE QUALITY OF ITS OPERATION IS INVESTIGATED. IT IS ASSERTED THAT THE SOLUTION OF THE PROBLEM OF DETECTION IN THE NON GAUSSIAN APPROXIMATION REQUIRES SPECIAL STUDY.

OBTAINED BY A. N. SHIRYAYEV. A BLOCK DIAGRAM OF THE QUASI OPTIMAL

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

USSR

UDC 621.391.8

IGNATOV, Yu. F.

"Quasi-Optimal Detection of FM Signals in Noise"

Kiev, Izvestiya VUZov SSSR-Radioelektronika, Vol 13, No 2, 1970, pp 171-180

Abstract: A quasi-optimal receiver for the detection of FM signals of variable frequency in white noise is designed in the Gaussian approximation. Justified in its application to problems in which reliable system operation is required, the approximation simplifies investigation of the quality of detection. This paper offers a solution to the problem of quasi-optimal FM detection involving an atypical phase AFC system, and thereby makes specific the results obtained by A. N. Shiryayev. A block diagram of the quasi-optimal receiver arrangement is given, and the quality of its operation is investigated. It is asserted that the solution of the problem of detection in the non-Gaussian approximation requires special study.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

USSR

UDC 621.372.061

SHAKHGILDYAN, V. V., IGNATOV, YU. F.

"Investigation of the Effect of Noise on the Operation of an Automatic Phase Frequency Control"

Tr. Mosk. elektrotekhn. in-ta svyazi (Works of Moscow Electrotechnical Communications Institute), 1970, vyp. 1, pp 104-108 (from RZh-Radiotekhnika, No 9, Sep 70, Abstract No 9A49)

Translation: This article contains a study of the statistical properties of an FAPCh (automatic phase frequency control) system with a proportional integrating filter. The bibliography has seven entries.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

UDC: 616.981.232-036.22-616.831.9-022-022.7-036.22

FAVOROVA, L.A., MIRONOVA, T.K., MARGOLINA, M.S., POKROVSKIY, V.I., VENGEROV, YU.YA., KOSTYUKOVA, N.N., AND IGNATOV, YU.I., Institute of Epidemiology and Microbiology imeni Gamaleya, Academy of Medical Sciences USSR, and Central Tractitute of Epidemiology

"Epidemiological Analysis of Cutoreaks of Epidemic Cerebrospinal Meningitis Report!"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 2, 1970, pp 95-100

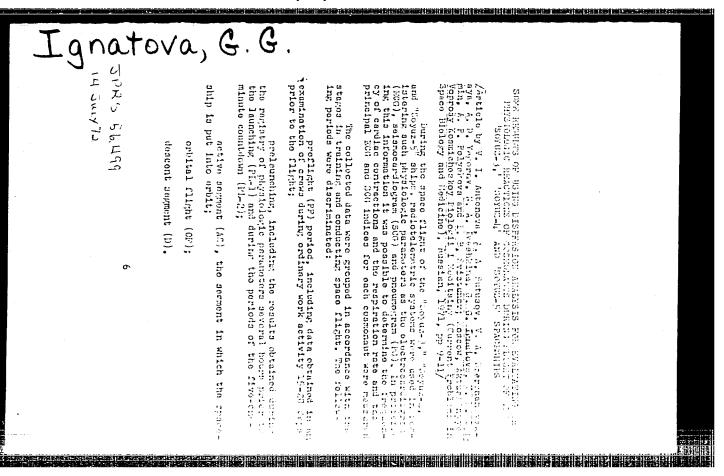
Abstract: The incidence of cerebrospinal meningitis in the Soviet Union dropped over 25 years ago to a very low level and stabilized. Only isolated cases were reported until 1967-1968, when minor epidemics of the disease occurred in a number of inhabited places. These outbreaks had a number of requency of mostly asymptomatic nasopharyngitis not detected by physicians, prevalence of the carrier state, infection mostly among children 12-20, especially those living under extremely crowded conditions in boarding schools, and occurrence in the fall and spring. The various tions in boarding schools, and occurrence in the disease but not the carrier control measures adopted halted the spread of the disease but not the carrier state, which persisted until the children returned to their homes for holiday vacations.

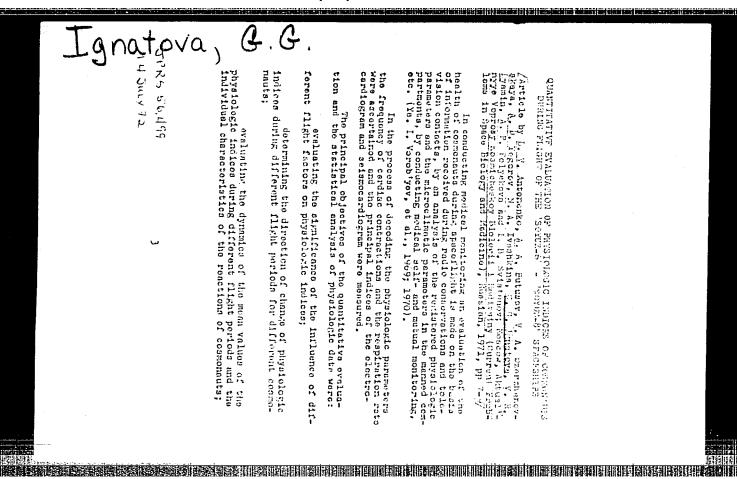
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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

Acc. Nr: AP0044201 Ref. Code: UR 0016 Zhurnal Mikrobiologii, Epidemiologii, i PRIMARY SOURCE: Immunobiologii, 1970, Nr 2, pp 95-100 EPIDEMIOLOGICAL ANALYSIS OF OUTBREAKS OF MENINGOCOCCUS INFECTION REPORTI Favorova, L. A.; Mironova, T. K.; Margolina, M. S.; Pokrovskiv., V. I.; Vengerov, Yu. Ya.; Kostyukova, N. N.; Ignatov, Yu. I. The authors present materials concerning epidemiological and microbiological characteristics of outbreaks of meningococcus infection which occurred in 1967-1968 against the background of prolonged epidemiological welfare. The outbreaks, characterized by individual cases of the disease, widespread nasopharyngitis and carrier state, had a number of characteristic epidemiological signs (automnospring seasonal prevalence, the patients' age range — from 12 to 20 years, and marked enidality of meningitis cases).

Strains of meningococci isolated from carriers differed in serological respect: along with types A, B and C there occurred many nonagglutinating strains, and also polyagglutinable and spontaneously agglutinating cultures.





Acc. NF 0049776_

Abstracting Service: CHEMICAL ABST. 5-70

Ref. Code: **UR019**/

nsymmetrical adipates and maleates. Interval of Preparing unsymmetrical adipates and maleates. Interval of Puchkova, V. V.; Moskovkina, E. M.; Grishko, N. I.; Balashova, T. S.; Shlenskaya, T. N. (USSR). Plast. Massy 1970, (1), 17-20 (Russ). Unsym. maleates and adipates, e.g., Bu nonyl maleate, Bu undecyl maleate, maleates from C₅₋₁₂ and C_{7-n} ales., Bu nonyl adipate, and adipates from C₈₋₁₂, C₇₋₉, C₁₂₋₁₆ alcs. were prepd. by a 2-stage procedure. Thus, maleic anhydride and the higher alc. were refluxed (in 1:1.02 molar ratio) at 70-90° without a catalyst, then the lower alc. was added (in a 20% excess) and the mixt. was further refluxed with H₂SO₄ at 140-50°. For unsym. adipates the starting material was adipic acid. The content of the monoester in the reaction mixt. was detd. by ir spectroscopy. The unsym. adipates and maleates were used for the modification of poly(vinyl chloride) (1). Modified I exhibited excellent freeze resistance (to -55°) and good physicomech. properties.

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REEL/FRAME 19801694

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

TITLE—ALCUMCLYSIS DURING THE PREPARATION OF UNSYAMETRIC DIESTERS OF PHTHALIC ACID +UAUTHOR-(C5)-KCMARGVA, R.P., ZVESDKINA, L.I., IGNATOVA, G.N., GRISHKO,
N.I., LUKIEV, S.M.
CCUNTRY OF INFO-USSR

SGURGE--ZH. PRIKCL. KHIP. (LENINGRAD) 1970, 43(5), 1886-8

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TGPIC TAGS--PHTHALATE, ALCOHOLYSIS, ESTERIFICATION, GAS CHROMATOGRAPHY

CENTREL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3004/1943

STEP NO--UR/0080/70/043/005/1186/1188

CIRC ACCESSION NG--APOL32204

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UNCLASSIFIED PROCESSING DATE-ZONGV7C CIRC ACCESSION NO-APO132204
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. MONDAMYL PHTHALATE (I) OR MONDAMYL PHTHALATE (II) WERE ESTERIFIED WITH NONYL ALC. OR AMYL ALC., RESP., IN THE PRESENCE OF 1.0PERCENT H SUB2 SO SUB4 (ON I OR II). GAS CHROMATCG. OF THE UNSYM. DIESTER SHONED THAT AT THE OPTIMUM REACTION CONDITIONS BETTER YIELDS WERE OBTAINED WHEN II WAS USED AS A STARTING ESTER. I UNDERGOES ALCOHOLYSIS FASTER THAN II DECREASING THE FINAL

U.C. ASSIFIED

USSR

GORYAYEV, M. I., ARTAMONOV, A. F., and IGNATOVA, L. A.

"A Purification Method for Naphtenic Acids"

USSR Author's Certificate No 362813, filed 4 Dec 70, published 27 Feb 73 (from RZh-Khimiya, No 19, Oct 73, Abstract No 19N558,P)

Translation: Technical naphtenic acids $\lceil NA \rceil$ obtained by catalytic oxidation of naphtenic hydrocarbons are purified from the carcinogenic admixtures and aromatic hydrocarbons by treatment with ozone at $< 30^\circ$. Example. 50 ε NA (acid number 153, n_D^{20} 1.4830) containing 1.8·10-7 ε /g of 3,4-benzpyrene is

ozonized for 15 min (ozone consumption 0.03 g). After ozonization no I can be detected by the luminescence-spectral method (the sensitivity of this method is 10^{-9} g/ml). NA is used as growth stimulator in plant growing and animal husbandry.

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- 55 --

UNCLASSIFIED PROCESSING DATE--13MOV70
TITLE--INTRAHOLECULAR REARRANGEMENT OF SUBSTITUTED
3,6,DIHYDRU,21H,PYRINIDIGETHIONES -UAUTHOR-(03)-IGNATOVA, L.A., UVECHKIN, P.L., UNKOVSKIY, B.V.

COUNTRY OF IMPO--USSR

SOURCE--ZH. VSES. KHIM. BBSHCHEST. 1970, 15(2), 238

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--INTRAMDLECULAR MECHANICS, PYRIMIDINE, ORGANIC SYNTHESIS, CHEMICAL REACTION MECHANISM, MOLECULAR STRUCTURE, IR SPECIKUM, UV SPECTRUM, THIOL

CENTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1061

STEP NO--UR/0063/70/015/002/0238/0238

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CIRC ACCESSION NO--AP0128488

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

UNCLASSIFIED PROCESSING DATE--13HDV70 CIRC ACCESSION NO--APOL28488
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. HEATING 0.67 G
4,6,6,TRIMETHYL,3,PHENYL,3,0,DIHYDRO,2(1H),PYKIMIDINETHIONE 0.5 HK WITH CONCO. HCL GAVE 0.47 G 4,4,6,TRIMETHYL,2,PHENYLAMINO,4H,1,3,THIAZINE, M. 122-3.5DEGREES. THE STRUCTURE WAS CONFIRMED BY IR AND UV SPECTRA. A MECHANISM FOR THE REACTION WAS PROPOSED. FACILITY: MOSK. INST. TONKOI KHIM. TEKHNOL. IM. LOMONOSOVA, MOSCOW, USSR.

UNCLASSIFIED

1/2 015 UNCLASSIFIED PROCESSING DATE--230CT70
TITLE--TRANSCORTIN BINDING PROPERTIES AT HYPERTENSION IN THE GENEALOGICAL
ASPECT AND TWINS STUDIES -U-

AUTHOR-(04)-GERASIMOVA, YE.N., IGNATOVA, L.N., RYVKIN, I.A., RYABTSEVA,

COUNTRY OF INFO--USSR

SOURCE--VOPROSY MEDITSINSKOY KHIMII, 1970, VOL 16, NR 3, PP 296-300

DATE PUBLISHED----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--HYPERTENSION, HEREDITARY DISEASE, HUMAN GENETICS

CENTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/0145

STEP NO--UR/0301/70/015/003/0296/0300

CIRC ACCESSION NO--AP0120845

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2/2 015 UNCLASSIFIED PROCESSING DATE--230CT70 CIEC ACCESSION NO--AP0120845 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE BINDING PROPERTIES OF TRANSCORTIN IN PATIENTS WITH HYPERTENSION ARE DECREASED. THE ANALOGOUS PICTURE WAS SHOWN IN MEN WITH NORMAL BLOOD TENSION WHOSE PARETNS WERE SUFFERED WITH HYPERTENSION. IN ONE EGG TWINS THE PRONOUNCED CONCORDANCE IN THIS FEATURE WAS DEMONSTRATED. THIC CONCORDANCE WAS WELL CORRELATED WITH THE ARTERIAL TENSION LEVEL. THE DATA PRESENTED POINT TO THE INVOLVEMESNT OF HEREDITAL FACTORS, REALIZING IN THE COURSE OF HYPERTENSION DEVELOPMENT, IN THE DETERMINATION OF TRANSCORTIN BINDING LEVEL. IT MAY BE SUPPUSED THAT THIS ONE OF THE POSSIBLE MECHANISMUS OF TRANSMISSION OF HEREDITAL PREDISPOSITION TO HYPERTENSIUM. FACILITY: THE DEPARTMENT OF BIOCHEMISTRY I ST MEDICAL INSTITUTE AND A. L. MYASNICOV CARDIOLOGY INSTITUTE USSR ACADEMY OF MEDICAL SCIENCES, MOSCOW.

UNCLASSIFIED

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

1/2 020 UNGLASSIFIED TITLE--FAMILIAL MEP WITTS IN CHILDREN -U-

PRUCESSING DATE--20NUV70

AUTHOR-(C4)-IGNATOV., M.S., BRISKINA, M.M., FCREYEVA, V.V., ARTEMKINA,

CCUNTRY OF INFO--USSR

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SCURCE-PEDIATRIYA 49(2): 8-13. ILLUS. 1970

SUBJECT AREAS—BIGLEGICAL AND MEDICAL SCIENCES

TOPIC TAGS-PECIATRICS, NEPHRITIS, AUDITION, HEREDITY

CENTROL MARKING--NO RESTAICTIONS

OCCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/0342

STEP NO--UR/0546/70/049/002/00000013

CIRC ACCESSION NO--APOLSSESS

UNCLASSIFIED

212 020 UNCLASSIFIED PROCESSING DATE--20NOV70 CIAC ACCESSION NO--APO135835 AUSTRACT/EXTRACT--(U) GP-C- ABSTRACT. A TOTAL OF 29 CHILDREN OUT OF 18 WITH FAMILIAL MATURE OF ASPHRITIS WERE OBSERVED. ALL THE PATIENTS WERE DIVIDED INTO THE FOLLOWING GROUPS: THE 1ST GROUP INCLUDED 7 CHILDREN DUT OF 4 FAMILIES IN WHOM THE DISEASE WAS CHARACTERIZED BY A DIFFERENT DEGREE OF THE MEPHROTIC SYNGROME MARKEDNESS: THE 2ND GROUP INCLUDED 22 CHILDREN FREM 15 FAMILIES IN WHOM STABLE HEMATURIA WAS ONE OF THE MAIN CLINICAL MANIFESTATIONS. IN 4 CHILDREN HEAMTURIA WAS COMBINED WITH DEFECTIVE EFARING, I.E. ALFORT'S SYNDROME WAS MARKED. THE DISEASE RAN A MORE SEVERE COURSE IN MALE PATIENTS, THE SEVERITY GREW WITH AGE AND WAS APPARENTLY DUE TO THE DEVELOPMENT OF EMPHROSCLERUSIS. THE DATA ARE GIVEN OF THE CLINICO GENETIC ANALYSIS REVEALING NUMEROUS CASES OF MEPHRUPATHY IN SOME PAMILIES. POSSIBLE MECHANISMS OF GENETIC HEREDITY OF FAMILIAL AUPHROPATHY ARE DISCUSSED. FACILITY: DEP. PEDIAT., CENT. INST. POSTGRAD. MED., MUSCOW, USSR.

ULCLASSIFIED

1/2 014 UNCLASSIFIED PROCESSING DATE--040EC70
TITLE--THE STUDY OF PRIMARY PYELONEPHRITIS IN CHILDREN -U-

AUTHOR-(05)-MATVEYEV, M.P., IGNATOVA, M.S., KLEMBOVSKIY, A.I., KOROVINA, N.A., TEVOSYAN, V.K.
COUNTRY OF INFO--USSR

SOURCE--PEDIATRIYA 49(2): 34-40. ILLUS. 1970

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--GENITOURINARY SYSTEM DISEASE, KIDNEY, NEPHRITIS

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY FICHE NO---FD70/605006/EL2 STEP NO--UR/0546/70/049/002/0034/0040

CIRC ACCESSION NO--ATO139810
UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

2/2 014 UNCLASSIFIED PROCESSING DATE--04DEC70 CIRC ACCESSION NO--ATO139810 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE PROBLEM OF PYELONEPHRITIS HAS BECOME ONE OF THE PRINCIPLE ONES IN NEPHROLOGY. CLINICAL, LABORATORY, ROENTGENOLOGICAL AND MORPHOLOGICAL CHARACTERISTICS OF 50 CHILDREN WITH AN INFECTIOUS PROCESS IN THE URINARY SYSTEM WERE GIVEN. INVESTIGATIONS CONDUCTED MADE IT POSSIBLE TO SINGLE OUT 3 GROUPS OF CHILDREN: THE FIRST GROUP INCLUDED CHILDREN (12) WITH DISTINCT CLINICAL AND ROENTGENOLOGICAL SIGNS OF PYELONEPHRITIS, THE SECOND GROUP INCLUDED CHILDREN (12) WITHOUT ROENTGENOLOGICAL SIGNS OF PYELONEPHRITIS AND MINIMUM BIOCHEMICAL SHIFTS OF THE BLOOD, WHO WERE REGARDED AS PATIENTS WITH AN INFECTION OF THE URINARY SYSTEM. CHILDREN OF THE THIRD GROUP (26), IN WHOM IN SPITE OF THE NORMAL X RAY PICTURE OF THE KIDNEYS ALONGSIDE PROTEINURIA, LEUKOCYTURIA AND BACTERIURIA MARKED SHIFTS OF PROTEIN, LIPID AND MUCCID METABOLISM, A TENDENCY TOWARDS THE TUBULAR FUNCTION WERE OBSERVED, COULD BE REGARDED AS PATIENTS WITH THE INITIAL PYELONEPHROTIC AFFECTION OF THE KIDNEYS. FACILITY: DEP. PEDIAT., CENT. INST. POSTGRAD, MED., MOSCOW, USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5" USSR

UDC 547.794:543.422

SHVETSOV-SHILOVSKIY, N. I., IGNATOVA, N. P., BOBKOVA, R. G., MANYUKHINA, V. YA., and MEL'NIKOV, N. N.

"Some Derivatives of Phosphadiazoles-1,2,3"

Leningrad, Zhurnal Obshchey Khimii, Vol 42 (104), No 9, Sep 72, pp 1939-1941

Abstract: Continuing the study of the reaction of phosphorus trichloride with hydrazones, \$\beta\$-Cyanoethylhydrazones of acetone, acetophenone and p-bromoacetophenone were reacted with PCl_3, yielding derivatives of phosphadiazole-1,2,3. Benzoyl- and carbobutoxyhydrazones of acetone reacted with PCl_3 to yield 2-substituted phosphadiazoles. Adding aniline to 2-acetyl-4-methyl-methylphosphadiazole along the -P:C bond gave 1-anilino-2-acetyl-4-methyl-phosphadiazole-1,2,3. Analogously starting with 2-acetyl-4-methyl-1-chloro-1,5-dihydrophosphadiazole and 8-hydroxyquinoline, 2-acetyl-4-methyl-1-(8-hydroxyquinolinyl)phosphadiazole-1,2,3 was obtained.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

USSR

IDC 543.51:547.1'118

KOSTYANOVSKIY, R. G., PLEKHANOV, V. G., IGNATOVA, N. P., BOBKOVA, R. G., and SHVETSOV-SHILOVSKIY, N. I., Institute of Chemical Physics, Academy of Sciences USSR

"Mass Spectra of 1,2,3-Phosphadiazoles"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 11, Nov 71, p 2611

Abstract: The authors studied the electron impact-induced decay of a new class of compounds with a 2-coordinate phosphorus atom. Mass spectral data confirm the aromatic character of 1,2,3-phosphadiazoles.

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USSR

UDC 547.794:543.422

SHVERSOV-SHILLOVSKIY, N. I., IGNATOVA, N. P., and MEL'NIKOV, N. N., All-Union Scientific Research Institute of Chemical Plant Protectants

"Reaction of Substituted Hydrazones with Phosphorus Trichhorkde"

Leningrad, Zhurnal Goshchey Khimii, Vol 40, No 7, Jul 70, pp 1501-1505

Abstract: The reaction of phonylhydrazones of aliphatic methyl ketones with phosphorus trichloride, resulting in the formation of 4-alkyl-2-phonyl-1,2,3-phosphadiazoles, is extended to cover other anylhydrazones and acylhydrazones. The interaction of phosphorus trichloride with acetore acetylhydrazones gave 1-chloro-4-methyl-2-acetyl-1,5-dflydro-1,2,3-phosphadiazole (I), the attractive of which was confirmed by the presence of an atomethine group (1633 em⁻¹) and carbonyl amide (1691 cm⁻¹) line in its IR spectrum. I reacted with alcohole in the presence of tricthylmine to give 4-methyl-1-alkoxy-2-acetyl-1,5-dihydro-1,2,3-phosphadiazoles and with aromatic amines or mitrogen heterocycles taken in excess to give 4-methyl-1-amido-2-acetyl-1,5-dihydro-1,2,3-phosphadiazoles. The action of tricthylamine on I gave 4-methyl-2-acetyl-1,2,3-phosphadiazole.

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1/2 017

TITLE—SELECTION AND CHARACTERISTICS OF L CELL SUBLINES RESISTANT TO

AUTHOR—(04)—ACCMAYTIYENE, D., IGNATOVA, T.N., PODGAYETSKAYA, D.YA.,

CCUNTRY OF INFO—LSSR

SCURCE--TSITLLCGIYA 1970, 12(4), 457-64

DATE PUBLISHED ----- 70

SUBJECT AREAS—BIGLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-TUMUR, TISSUE CLLTURE, GUANINE, ORGANIC NITROGEN COMPOUND,

CENTROL MARKING--NO RESTRICTIONS

DGCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/0414

STEP NO---UR/9053/70/012/004/0457/0464

CIRC ACCESSION NO--APO127985

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

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PROCESSING DATE—20NGV70

ABSTRACT/EXTRACT—(U) GP—0— ABSTRACT. L CELL SUBLINES RESISTANT TO

8.AZAGUANINE WERE OBTAINED DURING TREATMENT WITH THIS COMPD., AND

RETAINED THEIR RESISTANCE AFTER SEVERAL MONTHS OF REPRODUCTION IN VIVO

AND IN VITRO EVEN IN THE ABSENCE OF DRUGS, SUGGESTING THE HEREDITARY

6.MERCAPTCPURINE AND SENSITIVE TO 8.AZAADENINE. RESISTANT TO

8.AZA NUCLECTIDE EASES WAS NOT ACCOMPANIED BY CHANGES IN KARYOTYPE BUT

INVOLVED LOSS OF A SGL. ANTIGEN. BOTH SENSITIVE AND RESISTANT LINES HAD

POPULATION WAS NOT ABLE TO UTILIZE EXOGENOUS HYPOXANTHINE.

FACILITY: LAB. GENET. TUMOR CELLS, INST. CYTOL., LENINGRAD, USSR.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

1/2 027 TITLE--AMYLASE INDUCTION IN LEGELLS. EFFECT OF THE MODE OF CELL HARVESTING ON THE AMOUNT OF REGISTERED AMYLASE ACTIVITY -U-PROCESSING DATE--115EPTO AUTHOR-PODGAYETSKAYA, D.YA., GERSHUN, V.A., IGNATOVA, T.N., BLINOVA, COUNTRY OF INFO--USSR SQURCE--TSITOLOGIYA 1970, 12(2), 253-6 DATE PUBLISHED----70 SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES TOPIC TAGS--TISSUE CULTURE, CULTURE MEDIUM, AMYLASE, BIOSYNTHESIS CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1986/0943 STEP NO--UR/9053/70/012/002/0253/0256 CIRC ACCESSION NO--APOLO2884 UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

2/2 027
CIRC ACCESSION NO--APOLO2894
ABSTRACT/EXTRACT--(U) GP-0- ARSTRACT. INCREASED AMYLASE ACTIVITY IN L
CELLS AFTER ADDN. 19F STARCH TO THEIR NUTRIENT TRYPSIN CONTG. MEDIUM
RESISTERED EFFECT COULD BE CHANGED BY DIFFERENT METHODS OF THE
CELLS FROM THE GLASS. DURING MECH. OR SIMPLE HARVESTING, INDUCTION
DECREASED.

USSR

UDC: 666.764.32

IGNATOVA, T. S., BELYAKOVA, N. P., PERMIKINA, N. M., SEMKINA, N. V., MYAKISHEVA, N. A., and YEVDOKIMOVA, Z. U., Eastern Institute of Refractories

"Effect of Technological Factors on the Density and Microstructure of Corundum Ceramics Containing 1% Titanium Oxide"

Moscow, Ogneupory, No 8, 70, pp 32-35

Abstract: This study demonstrates the dependence of the microstructure and the density of corundum ceramics on the method of grinding, the dispersity of the silica, the method of molding and the annealing temperatures of the finished product. A higher dispersity, vibratory grinding, high annealing temperatures, and TiO2 additions promote the formation of a macrocrystalline structure, which in turn is responsible for the greater heat resistance of the material. A higher dispersity of the silica increases the intensity of

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

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IGNATOVA, T. S., et al, Ogneupory, No 8, 70, pp 32-35

crystallization at high temperatures and initiates recrystallization of corundum at a much lower annealing temperature. Vibratory grinding intensifies recrystallication and the formation of a macrocrystalline structure, which causes loosening of the body and decreases the density. It appears that the higher thermal resistance and lower strength of corundum parts with macrocrystalline structures are related to some increase in apparent porosity.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

1/3 TITLE--CORROSION RESISTANCE OF REFRACTORY MATERIALS IN ANTIMONY SALT MELTS

AUTHOR-(04)-BULDAKOV, A.A., RUZLOVSKIY, A.A., IGNATOVA, T.S., NAZAROVA,

COUNTRY OF INFO-USSR

SGURCE--DGNEUPORY 1970, 35(1), 35-7

DATE PUBLISHED ---- 70

SUBJECT AREAS--MATERIALS

TOPIC TAGS--MAGNESIUM OXIDE, ALUMINUM OXIDE, TIN, ALLDY, REFRACTORY MATERIAL, ANTIMONY, SODIUM CHLORIDE, POTASSIUM CHLORIDE, ELECTROLYTE, LEAD, IRUN, COPPER, CORROSIUN RESISTANCE, METAL POWDER/(U)SUZ ANTIMONY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1993/1955

STEP NO--UR/0131/70/035/001/0035/0037

CIRC ACCESSION NO--APOIL4373

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

2/3 038 UNCLASSIFIED PROCESSING DATE--090CT70

ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. CORROSION RESISTANCE UF A LARGE NU. OF REFRACTORY MATERIALS SIMULTANEOUSLY IN CONTACT FOR 250 HR WITH SB SALTS AND NACE PLUS KCL SOLN. AT BOODEGREES IN AN EXPIL. INDUSTRIAL ELECTROLYZER WAS DETD. THE ELECTROLYTE CONTAINED EQUIMOLAR MIXT. OF TECH. GRADE NACE AND KCL. INTERACTION OF THE MATERIALS USED OCCURRED NUT ONLY WITH CHEORIDES BUT ALSO WITH SOLNS. OF NA AND K IN THESE CHEGRIDES. THE ELECTROLYTE WAS SAID. WITH IMPURITIES CONSISTING OF PB 0.25-0.60, FE 0.04-0.28, CU 0.008-0.07, NI 0.001, AS 0.01-0.954, AND S 0.14-0.595PERCENT. RECTANGULAR PRISMS OR TABLOID SHAPED SPECIMENS OF MGO, AL SUB2 O SUB3, AIN, SI SUB3 N SUB4, BN, BOBN PLUS 20SI SUB3 N SUB4, 60BN PLUS 40SI SUB3 N SUB4, 76SI SUB3 N SUB4 PLUS SIC, 20MGG PLUS 80SI SUB3 N SUB4, 40MGQ PLUS 60SI SUB3 N SUB4, KMG SUB3 SI SUB3 ALQ SUB10 F SUB2 AND OF CEMENT OF MG PHOSPHATE WITH CARBORUNDUM FILLER WERE TESTED. THESE WERE PLACED VERTICALLY IN A GRAPHITE CRUCIBLE OF 30 MM HEIGHT AND 20 MM DIAM. WHICH WAS HALF FILLED WITH POWDER OF SB (SU-2 GRADEL. AN OPENING OF 4 MM DIAM. WAS MADE IN THE UPPER PART OF THE CRUCIBLE FOR CIRCULATION OF THE ELCTROLYTE. THESE SPECIMENS WERE THEN SUBJECTED TO THE ACTION OF SB MELT AND THE ELECTROLYTE AT BOODEGREES CRUCIBLE WAS HEATED IN A SILIT OVERN. SPECIMENS WERE THEN WEIGHED AFTER BOILING IN DISTD. WATER FOR 14 HR AND DRIED AT 150DEGREES FOR 10 HR. THE OUTER APPEARANCE AND THE CONDITION OF SPECIMENS AFTER TESTING HAVE BEEN GIVEN.

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OGNEUPOR., SVEKDLUVSK, USSR.

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PROCESSING DATE—090CT70

SUBSTRACT/EXTRACT—MGU, AL SUB2 0 SUB3, AIN, ZOMGO PLUS 80SI SUB3 N SUB4,

40MGU.60SI SUB3 N SUB4, AND KMG SUB3 SI SUB3 ALO SUB10 F SUB2 ARE

RECOMMENDED AS QUALITY MATERIALS FOR REFINING UF SB FROM ALLOYS BECAUSE

OGNEUPOR., SVEKDLUVSK, USSR.

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UDC 632.95

KULIBABA, Yu. F., and IGNATOVA, Ye. A., Scientific Research Institute of Horticulture and Floriculture, and Sochin Toxicological Laboratory, All Union Institute of Plant Protection

"Pesticides for the Protection of Flori-Decorative Cultures"

Moscow, Khimiya v Sel'skom Khozyzystve, Vol 11, No 8 (118), 1973, pp 40-42

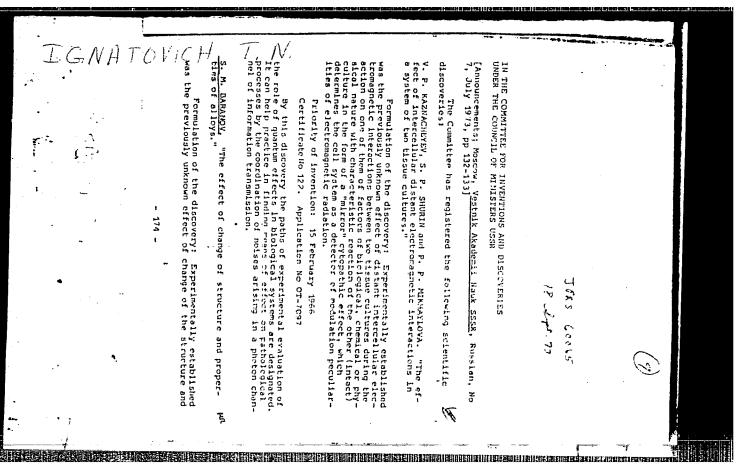
Abstract: The preparations: benzophosphate, amiphos, DDVF, sayphos, and phosphamide are effective against haustellate pests of the floridecorative cultures. Against the rose powdery mildew best results were obtained with caratan, euparene, MS-1053, and colloidal sulfur. The effective agents against carnation rust were tsineb, captain, phigon, phtalan, and maneb used prophilactically; phigon and polycarbacin were effective against heterosporiosis. All of these preparations caused no leaf burn and did not depress the growth or the development of plants.

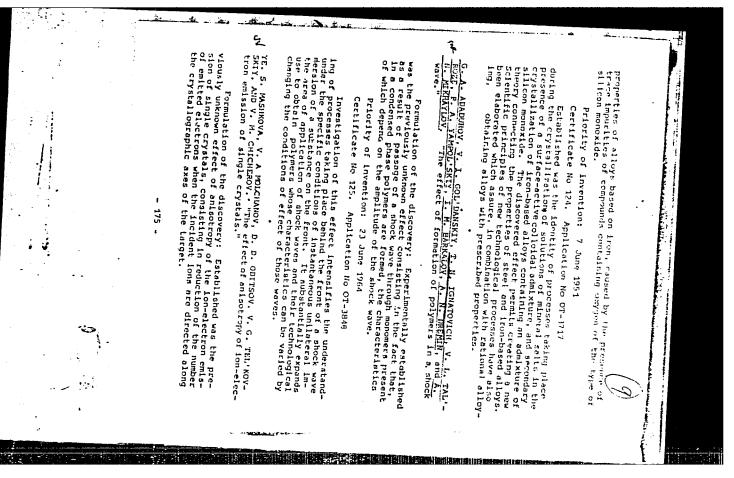
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Acc. Nr: APO049942 Abstracting Service: Ref. Code: CHEMICAL ABST. 5-70 ALLOW ALLOW UR 0 456

101197m Mechanism of shock-wave polymerization. Yampol'skii, P. A.: Ignatovichar T. N. (Inst. Khim. Fiz. Moscow USSR). Khim. 1933. Energ. 1970, 4(1), 74-6 (Russ). Acrylamide (I) was polymd. under static and dynamic pressures. I. compressed at room temp. under a static pressure of 80 kilobars did not polymerize but did under dynamic compression < 30 kilobars. The yield of polyacrylamide was unaffected by initial temps. from -90 to 125°. The mechanism of the shock-wave polymn. of I was explained on the basis of the N. N. Semenov (1960) theory. CKJR

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REEL/FRAME 19801878 750

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

Immunology

USSR

UDC 615.371:576.851.71].012.6.011.17.576.858

SALAGOVA, T. A., IGNATOVICH, V. F., and PILLE, E. R., State Institute of Standardization and Control of Medical Biological Preparations imeni Tarasevich, and Institute of Epidemiology and Microbiology imeni Gamaleya, Academy of Medical Sciences USSR, Moscow

"Methods for Detecting Viral Contaminants in Live Rickettsiosis Vaccines Produced in Chick Embryos"

Moscow, Zhurnal Mikrobiologii, Epidemiologii, i Immunobiologii, No 3, 1973, pp 47-51

Abstract: The pathogenicity of rickettsiosis vaccines with respect to viral contaminant test tissues necessitated development of alternative methods for detecting such contaminants during industrial production of the vaccines. Live typhus vaccine, Q fever vaccine, and live tick-borne rickettsiosis vaccine were treated with antibiotics to prevent rickettsial growth, to reduce its pathogenicity an intermediate product in typhus vaccine production was employed, while dry Q fever and tick-borne rickettsiosis vaccines were used as 50 and 10% suspensions in Medium No 199. It was possible to detect the following viral contaminants in these vaccines by applying them to the tissue preparations noted: Chick embryo fibroblasts: Fowl plague, Newcastle disease, infectious

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

USSR

SALAGOVA, T. A., et al., Zhurnal Mikrobiologii, Epidemiologii, i Immunobiologii, No 3, 1973, pp 47-51

laryngotracheitis, fowl pox; emryonic chick kidney: Fowl encephalomyelitis, fowl enteroviruses, hen reoviruses, hen adenoviruses, infectious laryngotracheitis; chick embryos: hen pox, infectious laryngotracheitis, fowl plague, Newcastle disease, blue comb crest disease; suckling mice: Arooviruses, ornithosis. Detection of infectious bronchitis, Marekis disease, and fowl leukosis presents particular problems, which are described. As a control of these methods the vaccines were applied to the above tissue cultures and human ammion cells artificially infected with fowl pox. It was possible to detect the contaminant by these methods.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

USSR

IGNATOVICH, V. F., Institute of Epidemiology and Microbiology imeni N. F. Gamaleya, Academy of Medical Sciences USSR

"Chronic Infection of Cultures of A_1 Cells With Rickettsia prowazekii"

Moscow, Voprosy Virusologii, No 5, 1971, p 624

Abstract: The possibility of obtaining cultures of A₁ cells chronically infected with Rickettsia prowazekii, vaccinal (E) and virulent Brein strains was demonstrated. Slight fluctuations in replication of the rickettsiae were noted in different stages of passaging the infected cells during the observation period (40-41 and 95 days, respectively). The virulent strain was replicated more intensively than the vaccinal strain.

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USSR

UDC 615.371:576.851.71].015.4:616.981.711-097.5

NIKOL'SKAYA, V. N., IGNATOVICH, V. F., and MOROZOVA, M. Yu., Institute of Epidemiology and Microbiology imeni Gamaleya, USSR Academy of Medical Sciences, Moscow

"A Possibility of Using Serological Methods for Additional Evaluation of the Intensity of Typhus Immunity in Guinea Pigs"

Moscow, Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, No 5, May 71, pp 137-141

Abstract: A vaccination against typhus which produces clinical immunity does not necessarily produce serological immunity. In this study performed on a large number of guinea pigs, it was shown that some vaccines produce a nightiter of complement fixing antibodies which — upon subsequent inoculation with typhus bacteria — either falls or does not change, or rises less than two-fold. Other vaccines, though they also confer clinical immunity, give rise to a small antibody titer. After subsequent infection with the typhus pathogen, the titer increases more than four-fold, which indicates that rickettsiae — though they do not produce clinical signs of disease — proliferate in the body until the concentration of antibodies rises to an effective

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USSR

NIKOL'SKAYA, V. N., et al, Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, No 5, May 71, pp 137-141

level. It is concluded that a double determination of antibody titer in experimental animals -- once after vaccination and a second time after infection -- is a good method of evaluating the strength of immunity induced by a typhus vaccine.

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1/2 013 UNCLASSIFIED PROCESSING DATE--18SEP70
TITLE--EXPERIMENTAL PREREQUISITES FOR SUBSTANTIATION OF THE POSSIBLE ROLE
OF TICKS IN EPIDEMIOLOGY OF TYPHUS (EXANTHEMATIC) -U-

AUTHOR-(02)-IGNATOVICH, V.F., GROKHOVSKAYA, I.M. ..

COUNTRY OF INFO--USSR

SOURCE--VESTNIK AKADEMII MEDITSINSKIKH NAUK SSSR, VOL 25, NO 2, 1970, PP 22-30

DATE PUBLISHED ---- 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--TICK, EPIDEMIC TYPHUS, GUINEA PIG, RICKETTSIA PROWAZEKI

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1986/1845

STEP NO--UR/0248/70/025/002/0022/0030

CIRC ACCESSION NO--APO103593

UNCLASSIFIED

PROCESSING DATE--18SEP70

2/2 013 CIRC ACCESSION NO--APO103593 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. AS A CONTINUATION OF PRIOR INVESTIGATIONS (I.M. GROKHOVSKAYA ET AL., 1966, 1967, 1968; V.F. IGNATOVICH ET AL., 1968A, 1968B) IN THE PRESENT WORK WE INVESTIGATED THE

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INCIDENCE OF TICK INFECTION ON INFECTED GUINEA PIGS, THE EFFECT OF INFECTIVE DOSAGE ON INFECTIVITY OF TICKS, THE POSSIBILITY OF TRANSPHASE AND TRANSOVARIAN TRANSMISSION OF TYPHUS PATHOGEN, TIME OF RETENTION OF RICKETTSIAE IN THE TICK ORGANISM. IN ADDITION, A STUDY WAS MADE UNDER EXPERIMENTAL CONDITIONS OF THE POSSIBLE ROUTES OF TRANSMISSION OF R. PROWAZEKII BY INFECTED TICKS TO WARM BLOOD ANIMALS AND INTO THE **ENVIRONMENT.**

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

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IDC 547.245'118.07

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KAMENSKIY, A. B., CGAYDZHAN, E. P., PONOMAREV, V. V., GOLUBTSOB, S. and IGNATOVICH, YU. A.

"A Method of Making Organyl Halosylyl Phosphines"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 22, Aug 72, Author's Certificate No 345167, Div C, filed 31 Jul 70, published 14 Jul 72, p 97

Translation: This Author's Certificate introduces a method of making organyl halyl phosphines by reacting hydrogen-containing halosilanes with chlorophosphines in an organic solvent with subsequent isolation of the goal product by conventional methods. As a distinguishing feature of the patent, the process is simplified by using organyl chlorophosphines as the chlorophosphines, and carrying out the process in the presence of a hydrogen chloride acceptor such as triethylamine.

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USSR

UDC 621.791.725+669.295+669.14

IGNATOVSKAYA, G. S., Engineer, and KOMAROV, M. A., Candidate of Engineering Sciences

"Welding Beryllium With Titanium and Steel"

Moscow, Svarochnoye Proizvodstvo, No 1, Jan 73, pp 17-18

Abstract: The possibility of welding beryllium with OT4 titanium alloy and 1Kh18N10T stainless steel was investigated. Rods of distilled beryllium (coarseness of initial powder was 355 microns) were used. The effect of the intermediate strip material was studied along with welding temperature and time and their effect on weld joint strength. Tests on the direct welding of beryllium to steel and titanium did not give good results. Therefore a material was selected which had a region of solid solutions with beryllium at high temperatures. The best material was found to be silver in comparison with nickel and copper. Using a silver intermediate strip, welds with 1Kh18N10T and 0T4 were vacuum tight and had a strength of more than 30 kgf/mm². A welding temperature of 750°C was the best temperature to yield the highest strengths: 35.0-39.1 kgf/mm² and 37.2-42.2 kgf/mm² for 1Kh18N10T and 0T4, respectively. Cryogenic tests showed that weld joint strength at -196 and -70°C was almost the same as at room temperature.

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IGNATOVSKAYA, G. S., and KOMAROV, M. A., Svarochnoye Proizvedstvo, No 1, Jan 73, pp 17-18

The maximum operating temperature for Be+1Kh18N10T and Be+0T4 welds was found to be $300\,^{\circ}\text{C}$. Four figures, 4 bibliographic references.

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USSR

UDC 615.217.32:547.333. 4.015.11

KHARKEVICH, D. A., SKOLDINOV, A. P., and IBADOVA, D. N., Laboratory of Nervous System Pharmacology and the Laboratory of Organic Synthesis, Institute of Pharmacology, Academy of Medical Sciences USSR, and the Department of Pharmacology, Faculties of Medicine and Public Health, 1st Moscow Medical Institute imeni I. M. Sechenova, Moscow

"The Effects of Adamantyl Radicals on the Mechanism of Cholinergic Action of Mono-Quaternary Ammonium Compounds"

Moscow, Farmakologiya i Toksikologiya, Vol 36, No 2, 1973, pp 201-205

Abstract: It has been demonstrated that adamantyl radical may alter the properties of curariform drugs, when substituted on the quaternary nitrogen atom. Present studies were performed to test the universality of this phenomenon by preparation of 1-adamantyl analogs of tetramethyl ammonium, choline, and acetylcholine, and testing them biologically. The studies were conducted on pigeons and chicks that had been intravenously injected with the appropriate compound and the nature of resultant paralysis was noted, on the rectus abdominis muscles of frogs to determine contractility, and on cats under anesthesia (intravenous chloralose, 60 mg/kg, and urethane, 600 mg/kg) to determine transmission across the myoneural junction of impulses from the sciatic nerve to the gastroenemias muscle. The substituted compounds were 1/2

USSR

KHARKEVICH, D. A., et al., Farmakologiya i Toksikologiya, Vol 36, No 2, 1973, pp 201-205

found to induce flaccid rather than spastic paralysis in the chicks and pigeons, did not cause contraction of the rectus abdominis muscles, or fascicullation of the gastrocnemius. Similar results were obtained with 1-adamantyl esters of acetic, benzoic, and cinnamic acids. The data were taken to indicate that introduction of 1-adamantyl not only changes the respective compounds from depolarizing to nondepolarizing compounds, but also through its lipophilic property affects the attachment of the compounds on the subsynaptic membrane and subsequent hydrophobic interaction with the choline receptors.

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USSR

UDC 632.952:582.28

IBRAGIMOV, G. R., and GARAYEV, P. S., Azerbaidzhan Scientific Research Institute of Geography

"The Effect of Fungicides on the Wheat Stalk Mildew Infection"

Moscow, Khimiya v Sel'skom Khozyaistve, No 4, 1973, pp 45-46

Abstract: In laboratory experiments the most effective agent among those investigated (udoncor, benlat, preparation 868 and preparation 1290) was the preparation 868 (analat) used in double application and the preparation 1290 sprayed three times, 10 days apart. In field trials the preparation 868 again proved to be superior. Therefore, it has been recommended to spray wheat twice with this agent 10 days apart, any time between the 30 May and 10 July.

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USSR

UDC 621.373.826

IGNATAVICHUS, M. V., PISKARSKAS, A. S., and STABINIS, A. YU.

"Use of Some AIIBVI Compounds for Controlling the Pulses of Optical Lasers"

V sb. Probl. fiz. soyedineniy A^{II}B^{VI}. T.I (Problems of the Physics of Compounds A^{II}B^{VI}. Vol.I — collection of works), Vil'nyus, 1972, pp 121-125 (from RZh-Radiotekhnika, No 11, Nov 72, Abstract No 11 D138)

Translation: A detailed theoretical study is conducted on the effect of 2-photon absorption within a laser resonator on the characteristics of light pulses during variation of the laser parameters within broad limits. Instantaneous modulation of resonator quality is proposed (since it takes place during use of directed, phototropic filters). Calculations show that variation in the thickness of the semiconductor absorber makes it possible to change the duration of the light pulses within very broad limits. It is shown that it is necessary to use semiconductors with a large value of the 2-photon absorption coefficient and a small linear absorption value in order to obtain light pulses with large peak power densities with possibly longer duration. A.K.

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USSR

IGNATENKO, P. P.

"Solution of One Transport Problem with a Discontinuous Goal Function"

Sistemotekhnika [Systems Engineering -- Collection of Works], Kiev, 1971, pp 138-146 (Translated from Referativnyy Zhurnal, Kibernetika, No 1, 1973, Abstract No 1 V710).

Translation: A generalization of the transport problem with fixed prepayments.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

USSR

UDC 666.321:622.765

KUZOVLEV, A. K., Candidate of Technical Sciences, IGNATHIKOVA, N. I., Engineer, MAL'TSEVA, I. I., Engineer, and BOGDAHOVA, Ye. D., Engineer, Central Asian Scientific Research Institute of Geology and Mineral Raw Material

"Experience in Centrifugal Floating Classification of Angrensk Kaolins in Hydraulic Turbocyclone"

Moscow, Steklo i Keramika, No 2, 1973, pp 25-26

Abstract: Experiments of flotation of kaolins were conducted on TTs-ID (TVN-75) turbocyclone and GTN-200 laboratory hydraulic turbocyclone by the Khimgeolnerud expedition at the Angrensk Research Station, in order to investigate a possible increase of the effectiveness of flotation of secondary kaolins. The centrifugal floating classification on the GTN-200 turbocyclone revealed that a high-quality kaolin concentrate with up to 32-34 % alumina content can be produced. This kaolin does not get worse with increasing density of the processed pulp and it is practically not inferior that the kaolin concentrated on NOGSh-325 scroll centrifuge. Three tables, one bibliographic reference.

USSR

UDC 621.396.6.019.3

IGNATOV, V. A.

"Optimization of the Quality of Radioelectronic Equipment by an Economic Criterion"

Sb. nauch. rr. Kiev. in-t inzh. grazhd. aviatsii (Collected Scientific Works of Kiev Institute of Civil Aviation Engineering), 1970, vyp. 6, pp 78-82 (from RZh-Radiotekhnika, No 5, May 72, Abstract No 5V297)

Translation: A new approach is proposed for optimizing the synthesis of radioelectronic equipment based on the noncanonical singular representation of technical-economic processes. The probability characteristics of the technical-economic indexes are expressed in terms of elementary random variables: the initial values and the rates at which the output parameters become worse, the duration of various types of technical servicing, and so on. The bibliography has 4 entries.

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USSR

UDC 576.851.71.06.083.3.095

IGNATOVICH, V. F., Institute of Epidemiology and Microbiology imeni Gamaleya, Academy of Medical Sciences USSR

"Culturing Properties of Vaccine (E) and Virulent (Breinl) Rickettsia Prowazeki Strains Cultured in Cell Systems"

Moscow, Zhurnal Mikrobiologii, Epidemiologii, i Immunobiologii, No 2, 1973, p 131

Abstract: Growth of vaccine (E) and virulent (Breinl) Rickettsia prowazeki strains was compared through several passages in human amnion cells and trypsinized chick embryo fibroblasts. Both strains reproduced for up to 8 passages in human amnion cells, but microscopic counts and antigen titers were higher for E strain. Growth was also more vigorous with E than with Breinl strain in fibroblast cultures but depended on the age at which the cultures were infected: Virulent bacteria could not be maintained longer than 4-5 passages in 9-11 day cultures but persisted for up to 17 passages in 8 day cultures. In this case there was little microscopic evidence of Rickettsia and no antigen was detected, but guinea pigs did produce high antibody titers when infected with the cultures. Such "unapparent" persistence requires further study.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

USSR

UDC 632.95

IGNAT'YEV, A. D.

"Basis for the Method of Analyzing Residues of Chlorocholine Chloride in Food Crops"

Tr. 2-go Vses, soveshch, po issled, ostatkov pestitsidov i profilakt, zagryazneniya imi produktov pitaniya, kormov i vnesh, sredy (Morks of the Second AllUnion Conference on the Investigation of Pesticide Residues and Preventive
Contamination of Food Products, Fodder and Environment), Tallin, 1971, pp 345347 (from RZh-Khimiya, No 12, Jun 72, Abstract No 12N499)

Translation: In order to analyze residues of chlorocholine chloride (I), it is necessary to subject the sample slowly to analysis or quickly freeze it, dry it or add CCl_2COOH (No later than after 24 hours). The representative size of sample for grain is \leq 0.1-0.5 kg; for green mass it is 0.5-2.0 kg. I is extracted from the greens and vegetables with water. The most satisfactory results of analyzing I are obtained by the method of thin-layer chromatography on a layer of silica gel with elution with a mixture of EuOH + IL_2O + HCOOH (12:7:1).

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USSR

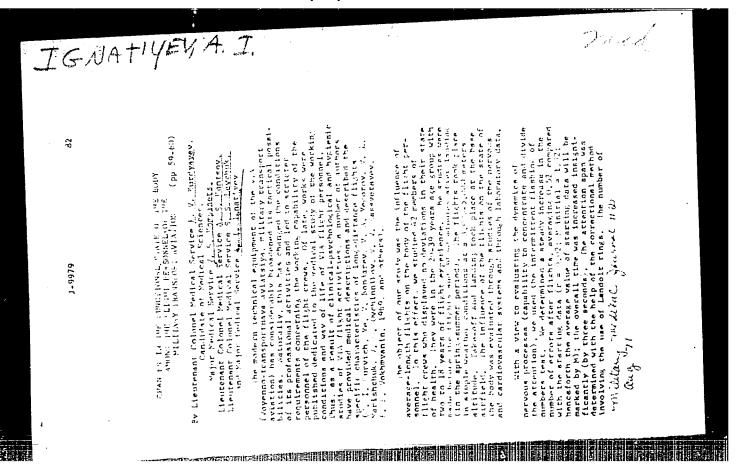
UDC 631.547.04

PRUSAKOVA, L. D., IGNATIYEV, A. D., and GORSHKOV, A. I., Institute of Plant Physiology, Academy of Sciences USSR, and First Moscow Medical Institute

"Residues of Chlorocholine Chloride in Wheat and Their Toxicological Significance"

Moscow, Khimiya v Sel'skom Khozyaystve, Vol 9, No 6, 1971, pp 56-58

Abstract: The authors made a long-term sanitary and toxicological study to determine residues of chlorocholine chloride (CCC) in treated wheat crops and to establish their safety limit for human and animal health. In 1967-1969 field tests, CCC residues were analyzed in the grain and straw of two varieties of winter wheat (wheat-wheat grass hybrid 186 and Mironovskaya 808). It was found that there are no residues of CCC in the grain of wheat treated with doses up to 4 kg/ha, but that in the case of combined treatment with CCC and 2,4-D there are slight residues approximating the limits detected by chemical analysis, are slight residues approximating the limits detected by chemical analysis, including a method as sensitive as thin layer chromatography. The 2,4-D apparently delays somewhat the breakdown of CCC in plants, thus promoting the apparently delays somewhat the breakdown of CCC in plants, thus promoting the apparance of insignificant residues. Recommendations for the use of CCC in agriculture must be strictly observed so as to obtain the maximum production effect and at the same time assure the absence of harmful impurities in treated crops.



Radar

USSR

UDC: 621.396.6:629.12

FRIDMAN, V. Ts., IGNAT'YEV, A. H.

"Analysis of Factors Which Determine the 'Dead Zone' of a Navigational Radar, and Ways of Reducing it"

Tr. TsNII Mor. flota (Works of the Central Scientific Research Institute of the Maritime Fleet), 1970, vyp. 124, pp 25-39 (from EZh-Radiotekhnika, No 12, Dec 70, Abstract No 126109)

Translation: The authors discuss the electrical and structural characteristics of individual devices in marine navigational radar stations which affect the size of the "dead zone." The decisive factors are: the power of the reflected signal, which depends on the height at which the antenna is set, the radiation pattern and the angle of inclination in the vertical plane; the duration of the probing pulse; pickup from the video pulse of the transmitter modulator; the length of the waveguide channel; the effect of the reception device which causes clongation of the probing pulse; signal attenuation caused by the discharger and antenna switch in the SHF head; image scale and spot diameter on the CRT screen; instability of the synchronization system. Recommendations are given on weakening these factors while retaining the basic radar characteristics. A. K.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

USSR

UDC: 621.391.8:519.27

IGNAT'YEV, A. N., OPOVKIN, V. I.

"Construction of a Physically Realizable Autocorrelation Function"

Tr. Kazan. aviats. in-ta (Works of the Kazan' Aviation Institute), 1970, vyp. 122, pp 9-17 (from RZh-Radiotekhnika, No 12, Dec 70, Abstract No 12A60)

Translation: The authors examine the problem of constructing an autocorrelation function with respect to a function (arbitrarily given on a finite interval) which in the general case is not realizable as an autocorrelation function. The power spectrum of the signal corresponding to the resultant function is determined, and from this spectrum, the spectrum of the signal being sought is found. One illustration, bibliography of six titles. N. S.

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- 23 -

1/2 023 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE-BATHING IN BASINS WITH SEA WATER IN THE TREATMENT OF PATIENTS WITH
INITIAL FORMS OF CEREBRAL ATHEROSCLEROSIS -UAUTHOR--IGNATYEV, A.N.

COUNTRY OF INFO-USSR

SOURCE--VRACHEBNOYE DELG. 1970, NR 6, PP 27-29

DATE PUBLISHED ----- 70

SUBJECT AREAS - BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--BRAIN. ATHEROSCESPOSIS, SEA MATER, THERAPEUTICS

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—3001/2005

STEP NO-UR/0475/70/000/006/0027/0029

CIRC ACCESSION NO--AP0127400

UMCLASSIF1ED

UNCLASSIFIED PROCESSING DATE--300CT70 CIRC ACCESSION NO-APO127400

ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. A STUDY OF 66 PATIENTS INDICATES THAT INCLUSION OF BATHING IN INDOOR BASINS WITH SEA WATER IN THE COMPLEX OF HEALTH RESORT MEASURES INCREASES THE EFFICIENCY OF TREATMENT OF PATIENTS WITH INITIAL FURMS OF CEREBRAL ATHEROSCLERUSIS ASSOCIATED WITH NEURASTHENIC STATES. FACILITY: YALTINSKIY SANATORITY KRASNCZNAMENNOGO CHERNOMORSKOGO FLOTA YALTINSKOGO INSTITUTA FIZICHESKIKH METODUV LECHENIYA I MEDITSINSKOY KLIMATOLOGII IMENI I. M. SECHENOVA KANE. MED. NAUK V. A. YEZHOVA.

UNCLASSIFIED

USSR

UDC 612.821:612.819:612.825+612.822.3

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IGNATIVEV, D. A., KARNUP, S. B., MURAIXVA, I. O. and ZEADIN, M. N., Tristitute of Biological Physics, USSR Academy of Sciences, Fushchino-na-Che

"On the Interaction of Cortical Induced Potentials on the Elaboration of a Conditioned Reflex"

Moscow, Doklady Akademii Nauk SSSR, Vol 213, No 2, 1973, pp 490-491

Abstract: An attempt was made to develop concrete characteristics stipulating similarity between induced potentials in the cerebral visual and motor cores of rabbits registered during the early stages of defensive conditioned reflex elaboration. The coefficient of cross-correlation, presentation of potentials as a superposition of transient oscillations and factor analysis were used. It was found that the coefficient of cross-correlation increased, reached a maximum and then fell with a concomitant decrease in motor reactions. This is shown to be due to the convergence of frequency and phase of responses in the theta region. These results are said to show that Livanov's concepts on the special role of theta-rhythm synchronization in stimulation transmission may be extended to cortical induced potentials.

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UNCLASSIFIED 1/2 015

PROCESSING DATE--13NOV70

TITLE--VIBRATIONAL SPECTRA AND CHEMICAL STRUCTURE OF COMPLEX IONS AND

MOLECULES OF THE X SUB3 0 SUB9 TYPE -U-AUTHOR-(02)-IGNATYEV, I.S., LAZAREV, A.N.

COUNTRY OF INFO--USSR

SOURCE--DUKL. AKAD. NAUK SSSR 1970, 191(3), 596-9

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--COMPLEX COMPOUND, ION, SULFUR, CHLORINE, VIBRATION SPECTRUM

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/0596

STEP NO--UR/0020/70/191/003/0596/0599

CIRC ACCESSION NO--AT0124283

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

PROCESSING DATE--13NOY70 UNCLASSIFIED 2/2 015 CIRC ACCESSION NO--AT0124283 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. CYCLIC MOLS. X SUB3 U SUB9 FORMED BY CONDENSATION OF 3 TETRAHEDRA XO SUB4 INTO A CONFIGURATION EACH WITH 2 COMMON AND 2 FREE O ATOMS ARE KNOWN FOR SI, P. AND S. BASED ON THEIR KNOWN CONFIGURATIONS, AT. DISTANCES, AND ESTD. FORCE CONSTS. OF THE X O BONDS, THE VIBRATIONAL FREQUENCIES WERE CALCO. AND COMPARED WITH THE EXPTL. DETD. VALUES FOR SI SUB3 O SUB9 AND P SUB3 O SUB9. THE OBTAINED FORCE CONSTS. INDICATE FURTHER THAT, FOR SI AND P OXIDES, THE CONDENSATION INTO THE CYCLIC X SUB3 O SUB9 CONFIGURATION IS MORE PROBABLE WHILE FOR S AND CL THE NONCONDENSED XO SUB4 FORM IS MORE FACILITY: INST. KHIM. SILIKAT. IM. GREBENSHCHIKOVA, STABLE. LENINGRAD, USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

USSR

UDC 621.125-529:629.123.56-181.2

VOYTETSKIY, V. V., GOL'DBERG, M. E., IGNAT'YEV, A. V., and SHRAYER, A. I.

"Programmed Control of a Supertanker Steam-Turbine Plant Fitted With a Variable-Pitch Propeller"

Leningrad, Sudostroyeniye, No 11, Nov 72, pp 26-28

Abstract: On the basis of research conducted with regard to the steam-turbine unit of a tanker of the "Krym" type, a report is given on the particular features of the programmed control of a turbogear unit with a variable-pitch propeller in application to a supertanker, and recommendations are made concerning the structure of the automated remote control of the automated power unit. 3 figures.

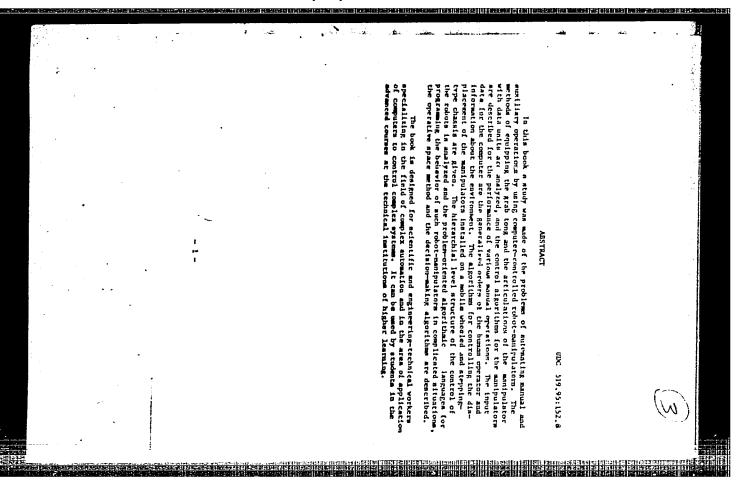
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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

IGNAT	M.B.		Than	pulados	8
(GNAT YEV	It be taken post ope ope into the state of t	USSR Electronics Computers Automation Robot-Manipulators Programming	ALCORITMY UPRAVIENTYA ROBOTANI-MANIPULYATORANI, 1972, Lening the report contains a study of the problems involved in the remoted and auxiliary operations by using computer-controlled	A. B. Liphallyry, F. H. Kulnker, A. H. Roktovahly H. B. Liphallyry, F. H. Kulnker, A. H. Roktovahly Interpolations Research Service 1000 North (fiche Road Arlington, Virginia 72201 11. The same the same what and Address As above	HIRL GOCKAPHIC DATA LIFE-FOR S. JPRS 59717 2 HIRL GOCKAPHIC DATA LIFE-FOR S. JPRS 59717 2 ROPOT-MANIPULATOR CONTROL ALCORITHES
	10. Security Character Cha	San	rad sutcemartion of robot-manipulators.	10. Proper (Tan)/Find Lone No. 11. Common Trans Me. 11. Common Trans Me. 12. Correct B Spart & Period (Correct B Correct B Correct (Correct B Correct B Correct B Correct (Correct B Correct B Correct B Correct (Correct B Correct B Correct B Correct B Correct (Correct B Correct B	1 Burgard Assessment 1973

			[1 - USSR - N]	APPENDIX		CIAPTER VI. Extremal Method of Organizing the Control of Robota 171 CIAPTER VII. Decision-Making System Aigorithms	CIMPTER V. Operative Space Method for Constructing Robot Control Lib	CHAPTER IV. Input Languages of the Man-Robot System	111.				AISTWACT	Translation of Russian-language book by M. B. Ignat'yev, F. M. Rulakov, and A. M. rokrovskiy: Algoritmy Upravicniya Robotami Hanipulyatorami, 1972, Izdatel'sivo, Mashinostroyoniye, Leningrad. 248 pages. PAGE	ROBOT-MANIPULATOR CONTROL ALGORITHMS		JPRS 59717 6 August 1973	
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UDC 8.74

IGNAT'YEV, M. B., FLEYSHMAN, E. S., KHOROSHEVSKIY, V. G., SHCHERBAKOV, O. V.

"Reliability of Homogeneous Computation Systems"

V sb. Vychisl. sistemy (Computation Systems--collection of works), vyp. 48, Novosibirsk, 1971, pp 16-47 (from RZh-Kibernetika, No 12, Dec 72, Abstract No 12V411)

Translation: A study was made of the problems of reliability of homogeneous all-purpose computation systems. The monitoring and correction procedures for the computation processes are described. Definitions of systems with structural redundancy and long-lived systems are presented. These classes of systems include the known systems of reliability theory. The reliability indexes of the homogeneous all-purpose computation systems are introduced. A study was made of the approaches when estimating the reliability of the elementary computer of the homogeneous all-purpose computation systems. Stochastic models of these systems are constructed which lead to simple formulas for the reliability indexes. It is noted that the numerical results obtained by these formulas co-incide with a known degree of accuracy with the results of the more exact but more tedious calculations. Approximate methods of calculating the indexes of the homogeneous all-purpose computation systems are also investigated. Asymptotic estimates of the reliability indexes of the systems are presented for 1/3

IGNAT'YEV, M. B., et al., Vychisl. sistemy, vyp. 48, Novosibirsk, 1971, pp 16-47

 $N \to \infty$. Divisions of the system into subsystems which are optimal from the point of view of reliability are found. The conditions are presented (logarithmic growth with time of the number of elementary computers) insuring reliability of the system as high as one might like. It is established that a sufficiently high reliability of such systems can be achieved, in particular, if their program organization is either by the principle of systems with structural redundancy or by the principle of long-lived systems. The proportion of the computers comprising the structural redundancy does not exceed a tenth part of the number of elementary computers in the system. The investigated principles have the advantage that they do not permit idle time of the elementary computers which are in a state of good repair. The methods of solving the monitoring and diagnostic problem for failures in homogeneous computation systems are noted. Calculation formulas were obtained for the technical-economic indexes. The problem of the optimal number m* of devices in the repair system is solved. It was found that \mathbf{m}^{\star} comprises an insignificant portion of the number N of computers in the system; in addition, the ratio $m^*/N \to 0$ when $N \to \infty$. The results are illustrated by examples of homogeneous all-purpose computation systems. It is noted that highly efficient and highly reliable systems can be constructed on the existing physical-technological base. From the point of view of reliability, 2/3

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USSR

IGNAT'YEV, M. B., et al., <u>Vychisl. sistemy</u>, vyp. 48, Novosibirsk, 1971, pp 16-47 efficiency and cost homogeneous computation systems are a prospective area in computer engineering. The bibliography has 25 entries.

3/3

Mechanical and Optical

USSR

UDC: 621.80:681.142.35

ni jaka 1924 ji kili jeni jak kumina ja jaku ji jenen jak ni kukububakan jarajaha na bibuja mili desersi ku

IGNAT'YEV, M. B., KULAKOV, F. M., and POKROVSKIY, A. M.

"Prospects of Designing and Using Manipulators Controlled from Computers"

Moscow, Mekhanika mashin, No. 27-28, 1971, pp 45-55

Abstract: The manipulators of the title refer particularly to automatic devices, with or without a human operator, for undersea explorations, where the use of a human being is particularly dangerous if not impossible. The design of such manipulators is connected with the realization of unusually complex control algorithms which can be performed only by computers. The basic factors determining the technical-economic efficiency of computer-controlled or mancontrolled manipulators are considered, under the assumption that the manipulator operates in a particular medium of specified variability depending on changing conditions. Such psychological factors as exhaustibility, error proneness, and limited working accuracy, are not taken into account. The basic stages in the process of automatic manipulator design are discussed, and the block dia-

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IGNAT'YEV, M. B., et al., Mekhanika mashin, No 27-28, 1971, pp 45-55

grams of two program- and computer-controlled manipulators shown. Also considered are the linguistic approach to the synthesis of control programs, and the modeling of manipulators with program control. Many of the quoted sources are American.

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- 105 -

USSR

UDC 519.2:62-50

IGNATIYEV. M. R., MOSKATOV, G. K.

"On the Reliability of a Class of Self-Organizing Systems With Redundancy"

V sb. 4-y Simpozium po probl. izbytochn. v informatsion. sistemakh. Pokl. Ch. 1 (4th Symposium on Problems of Redundancy in Data Processing Systems. Papers. Part 1 -- Collection of Works), Leningrad, 1970, pp 273-283 (from RZh-Matematika, No 10, Oct 70, Abstract No 10V170)

Translation: A self-organizing system constructed by the excess variable method is considered; the structure of the input flow relative to control conditions is analyzed; the random process of the development of states in the system is considered as semi-Markov, and expressions are found for the probability of the system staying in a working state in both the presence and absence of failures in the control unit. Authors abstract.

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- 33 --

USSR

UDC 519.2:62-50

IGNAT'YEV, M. B.

"On the Stability of Redundant Systems"

V sb. 4-y Simpozium po probl. izbytochu. v informatsion. sistemakh. Dokl. Ch. 1 (4th Symposium on Problems of Redundancy in Data Processing Systems. Papers. Part 1 -- Collection of Works), Leningrad, 1970, pp 292-299 (from RZh-Matematika, No 10, Oct 70, Abstract No 10V169)

Translation: Redundant systems constructed by the excess variable method are considered. The possibility of constructing such systems which are stable under constantly acting small and average random perturbations is investigated. Authors abstract.

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- 34 -

UDC: 8.74

USSR

ICNATIYEV, M. B., KASPAROV, G. A.

"Integration of Differential Equations Using Nonideal Analog Integrators"

Tr. Leningr. In-t Aviats. Priborostr. [Works of Leningrad Institute of Aviation Instrument Building], 1972, No 74, pp 134-141 (Translated from Referativnyy Zhurnal Kibernetika, No 11, 1972, Abstract No 11V550, by the authors)

Translation: A method is suggested for programming differential equations, considering the undesirable negative feedback used in actual analog integrators, based on the introduction of an extra number of variables to the initial equation. It is shown that for linear problems, in addition to increasing the accuracy of modeling, this method allows homogeneous decision structures to be used, in which it is simple to perform checking by a priori known final connections.

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USSR UDC: 8.74

وأرورتها أبريزون وبسانهم بالمباراة بماحة أسماء بمحمل والبيارين

ARISTOVA, M. V., IGNATIYEV, M. V.

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"Development of an Algorithmic, Problem-oriented Language for the Control of Manipulators"

Tr. Leningr. In-t-Aviats. Priborostr. [Works of Leningrad Institute of Aviation Instrument Building], 1972, No 74, pp 125-133 (Translated from Referativnyy Zhurnal Kibernetika, No 11, 1972, Abstract No 11V606, by the authors)

Translation: Several approaches are discussed to the control of complex information systems such as robot manipulators. The advantages and disadvantages of the information-logical and algorithmic problem-oriented approaches are discussed. An initial version of a problem-oriented language is suggested which, the authors feel, can serve as the core for a universal manipulator-control language. The syntax and semantics of the language suggested are described. Certain particular types of tasks for manipulators are presented in this language.

UNCLASSIFIED PROCESSING DATE--300CT70
FITLE--LIMITATION OF TUNNEL CURRENT IN METAL-DIELECTRIC-6ISMUTH ANTIMONIDE
JUNCTIONS BY CENTRES LOCALIZED NEAR THE INTERFACE BETWEEN THE DIELECTRIC
AUTHOR-(02)-GALKIN, A.A., IGNATYEV, O.M.

COUNTRY OF INFO-USSR

SOURCE--UKRAIN. FIZ. ZHUR., MAR. 1970, 15, (3), 438-440

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DATE PUBLISHED----70

SUBJECT AREAS—ELECTRONICS AND ELECTRICAL ENGR., PHYSICS

TOPIC TAGS--TUNNEL CURRENT, ALLOY PN JUNCTION, BISMUTH CONTAINING ALLOY, ANTIMONIBE, DIELECTRIC PROPERTY

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3003/0201

STEP ND--UR/0185/70/015/000/0438/0440

CIRC ACCESSION NO--AP0129457

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--308C170

2/2 014 UNCLASSIFIED PROCESSING DATE--308C170

CIRC ACCESSION NO--APO129457

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE MECHANISMS GIVING RISE TO THE PECULIAR SHAPE OF THE TUNNEL CURRENT CHARACTERISTIC OF ME DIELECTRIC BI SUB 1-X SB SUBX JUNCTIONS (E.G. AL PER AL SUB2 O SUB3-BI SUB1-X SB SUBX)

ARE DISCUSSED. THE SHAPE OF THE CHARACTERISTIC IS DETERMINED BY THE PRESENCE OF FREE BI ATOMS IN THE UPPER ELECTRODE; THESE CREATE LOCAL CAPTURE (TRAPPING) CENTRES IN THE SURFACE LAYER OF THE DIELECTRIC, AND IONIZATION OF THESE LEADS TO THE LIMITATION OF THE TUNNEL CURRENT. THIS EFFECT IS ACCORDINGLY MODIFIED WHEN THE PROPORTION OF SB IN THE BI-SB ALLOY IS INCREASED.

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

1/2 014 UNCLASSIFIED PROCESSING DATE--04DEC70
TITLE--CONDITIONS FOR THE EXISTENCE OF SODIUM CALCIUM SILICATE HYDRATE IN

ALKALINE SOLUTIONS -U-

AUTHOR-(02)-GORYACHEV, A.A., IGNATYEV, O.S.

COUNTRY OF INFO--USSR

SOURCE--ZH. PRIKL. KHIM. (LENINGRAD) 1970, 43(5), 999-1002

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--CRYSTALLIZATION, CALCIUM OXIDE, SODIUM OXIDE, SILICATE, METAL COMPLEX COMPOUND, ALUMINUM COMPOUND

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3004/0937

STEP NO--UR/0080/70/043/005/0999/1002

CIRC ACCESSION NO--AP0131522

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

2/2 014 UNCLASSIFIED PROCESSING DATE--04DEC70 CIRC ACCESSION NO--APO131522
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE CRYSTN. REGION OF NA SUB2
O.2CAO.2SIO SUB2 .H SUB2 O (I) OVER A WIDE TEMP. RANGE (150-300DEGREES)
AND THE NAOH CONCN. RANGE (150-400 G-L.) WAS DETD. THE DECOMPN. OF I ON PROLONGED CONTACT WITH THE ALUMINATE SOLN. IS EXPLAINED BY THE FORMATION OF ALUMINOSILICATE COMPLEXES IN THE LAYER NEXT TO THE CRYSTALS. THESE COMPLEXES ARE TRANSPORTERS OF SI.

UNCLASSIFIED

UDC 537.591.5

VERNOV, S. N., GORCHAKOV, YE. V., IGNAT YEV, P. P., and GALACH YEV, N. G.

"Variations in Fluxes of Charged Particles of Various Energies According to

Moscow, Izvestiya Akademii Nauk SSSR, Sertya Fizicheskaya, Vol 35, No 12, Dec 71, pp 2418-2422

Abstract: The article considers data on variations in the fluxes of charged particles of various energies, recorded on the Venus-2,3,4,6 and Zond-3 automatic interplanetary stations. The flight of Venus-2 and 3 and Zond-3 gave information for 1965; the Venus-4 flight, for 1967; and the Venus-6 flight, for 1969. Data on protons with E = 1-5 Mev and E > 30 Mev are mainly used. The data on low-energy protons were obtained by means of fine semiconductor detectors which recorded only protons and multiply charged particles but were insensitive to electrons. The protons with E > 30 Mev were measured by means of a gas-discharge counter. It is shown that for short (less than two days) and long (more than several days) variations there is an increase in low-energy proton flux during a decrease in the galactic cosmic-ray intensity. A

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VERNOV, S. N., et al., <u>Izvestiya Akademii Nauk SSSR</u>, <u>Seriya Fizicheskaya</u>, Vol 35, No 12, Dec 71, pp 2418-2422

more careful study of the relation between these phenomena requires that galactic cosmic rays be recorded by a detector with a high energy threshold value, which, for all practical purposes, would not record solar protons against a background of galactic cosmic rays.

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Engineering Aeronautical and Space

USSR

UDC 629.78.015:533.6.015.04

IGNAT'YEV, S. G., LIFSHITS, Yu. B.

"Toward a Theory of Sonic Flow Over a Profile"

Uch. zap. Tsentr. aerogidrodinam. in-ta (Scientific Notes of the Central Aerohydrodynamic Institute), 1972, Vol. 3, No. 4, pp 9-13 (from RZh-41. Raketostroyeniye, No 11, Nov 72, Abstract No 11.41.101)

Translation: A previously given empirical formula relating pressure with the local incidence angle at the tail section of a profile in a flow that is sonic at infinity is derived. The problem of the optimal shape of the tail of the profile is solved with the aid of this formula. 1 ill., 6 ref. Resume.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002201110009-5"

USSR

UDC: 621.376.5(088.8)

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ICHATIYEV, S.A.S., ZHUKOV, S. A.

"A Pulse Modulator"

USSR Author's Certificate No 264448, filed 5 Jul 68, published 12 Jun 70 (from RZh-Radiotekhnika, No 11, Nov 70, Abstract No 11D464 P)

Translation: This Author's Certificate introduces a pulse modulator which contains a high-voltage DC supply with charging choke and isolating diode, a commutator based on a power thyristor, an accumulator in the form of an artificial line, and a load. To increase the steepness of the leading edge of the shaped pulse and reduce commutation interference, the modulator is equipped with an additional low-power thyristor which is connected through a limiting resistor in parallel with the above-mentioned power thyristor. Two illustrations. V. P.

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USSR

UDC: 621.376.5(088.8)

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Acc. Nr:

AP0034764

Ref. Code: UR 0241

PRIMARY SOURCE:

Meditsinskaya Radiologiya, 1970, Vol 15,

Nr 1, pp 4/3-48

IDENTIFICATION OF FOCAL LESIONS ON SCANNOGRAMS

Ignat'yev, U. V.; Serebryanyy, E. G.; Sergiyenko, V. B.;
Summary

Filatov, V. I.

Experiments which helped to establish regularities making possible for the physicians to read scannograms and identify local lesions on them are described. Information characteristics are presented and recommendations substantiated, facilitating the choice of optimal scanning conditions.

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UDC 621.791.75

IGNAT'YEV, V. G., Candidate of Technical Sciences, and PORITSKIY, M. P., Engineer, Institute of Electric Welding imeni Ye. O. Paton, Academy of Sciences Ukrainian SSR

"Mechanical Properties of Aluminum Alloy 1915 and AMg5 Weld Joints After Semi-Automatic Welding"

Kiev, Avtomaticheskaya Svarka, No 2, Feb 74, pp 49-50

Abstract: Butt joints of alloys 1915 and AMg5, 8-mm thick, were welded by semi-automatic, argon-arc impulse welding with a consumable electrode of either welding rod 1557-1 ro SvAMg6. Welding with 1557-1 was done in one- and two-pass modes in which the welding parameters were changed for the second pass. Welding with SVAMg6 was done in two and three passes with the welding parameters altered for each pass. The welded joints were naturally aged for one month after which they were mechanically tested at room temperature and at -30 and -60°C, and compared with the same properties of the base metals at the same temperatures. The best properties were exhibited by butt joints made using welding rod SvAMg6 and two welding passes. In the case of using either of the two welding rods, the extra welding pass served only to lower the weld joint mechanical properties. Two figures, and two tables.

UDC 621.791.754

RABKIN, D. M., Doctor of Technical Sciences, ISHCHENKO, A. YA., Candidate of Technical Sciences, IGNAT'YEV, V. G., Candidate of Technical Sciences, LOZOV-SKAYA, A. V., Candidate of Technical Sciences, SAYENKO, M. I., Engineer, Electric Welding Institute imeni Ye. O. Paton of the Academy of Sciences UKrSSR, KOZLOVSKAYA, V. P., Candidate of Technical Sciences, and ICDA, M. V., expansion unknown

"Influence of Admixtures on the Mechanical Properties of Joints of 1201 Aluminum Alloy"

Kiev, Avtomaticheskaya Svarka, No 7(244), Jul 73, pp 53-55

Abstract: Mechanical test results of joints of aluminum alloys, 1201 type (0.15% Fe, 0.12% Si) and 01203 type (0.003% Fe, 0.02% Si), are discussed by reference to curves of the effect of temperature on the strength of the initial metal and the joint and of the effect on the relative elongation of the initial metal. The decrease of the total Fe and Al content to 0.06% in alloys of Alcutype improves the mechanical properties of the initial metal and of welded joints at normal temperature. The relative elongation, impact ductility, and the angle of bend of the initial metal and of joints of 01203 alloy are ω 1.5 times higher than on 1201 alloy. The mechanical properties of both alloys 1/2

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RABKIN, D. M., et al., Avtomaticheskaya Svarka, No 7(244), Jul 73, pp 53-55

improve with decreasing temperature. At liquid He temperature, the resistance to rupture of the initial metal and of joints of 01203 alloy are somewhat higher than on 1201 alloy and the relative elongation of the initial metal is two times higher. Three figures, one table, four bibliographic references.

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